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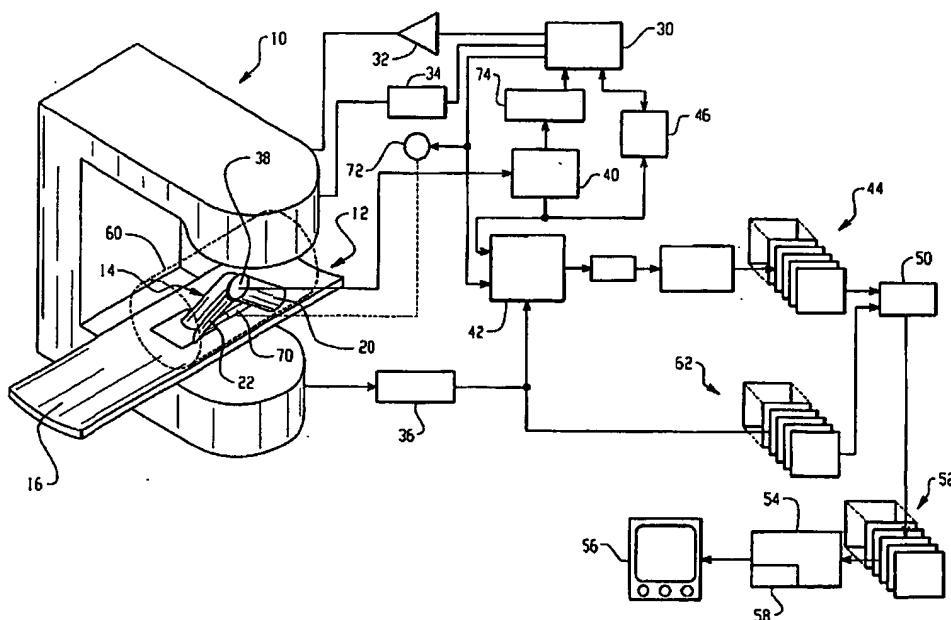
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(54) Title: RETROSPECTIVE TRIGGERED MRI OF ACTIVE OR PASSIVE JOINT MOTION



(57) Abstract: A subject is placed on a patient support (16) with a bodily structure, such as a joint, within an imaging region (12) of a magnetic resonance imager (10). The bodily structure is moved continuously back and forth through a series of motion states, either manually or under power (70, 72). Encoded magnetic resonance data is distributed (42) into motion state windows. Data with phase encodings near the center of k-space are distributed accurately into the corresponding motion state window; whereas, data phase encoded near the edge of k-space is distributed with less accuracy and may be duplicated and shared among several motion state windows. Data from each motion state window are reconstructed (50) and displayed (56) in a cine mode representing continuous motion.

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**Declaration under Rule 4.17:**

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ,

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